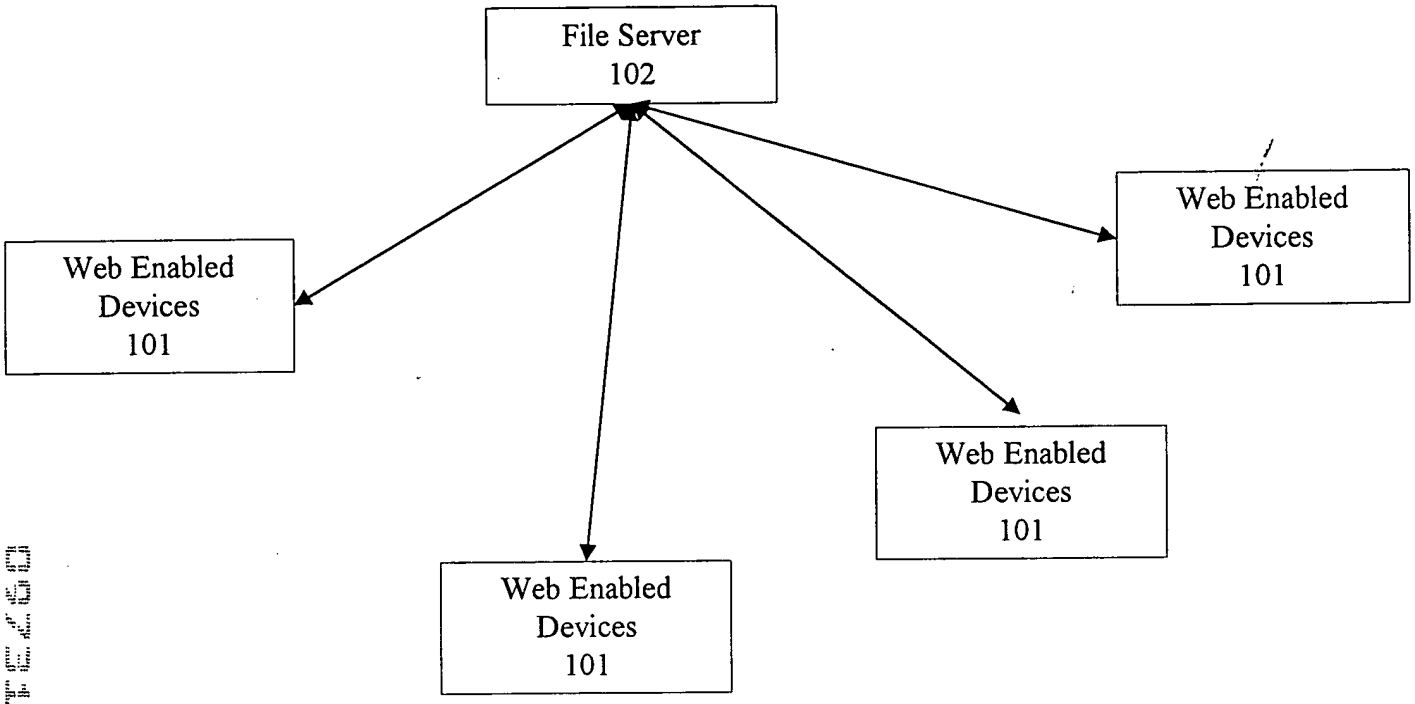
Figure 1


File Server
102
Web Enabled
Devices
101
Web Enabled
Devices
101
Web Enabled
Devices
101
Web Enabled
Devices
101
Web Enabled
Devices
101

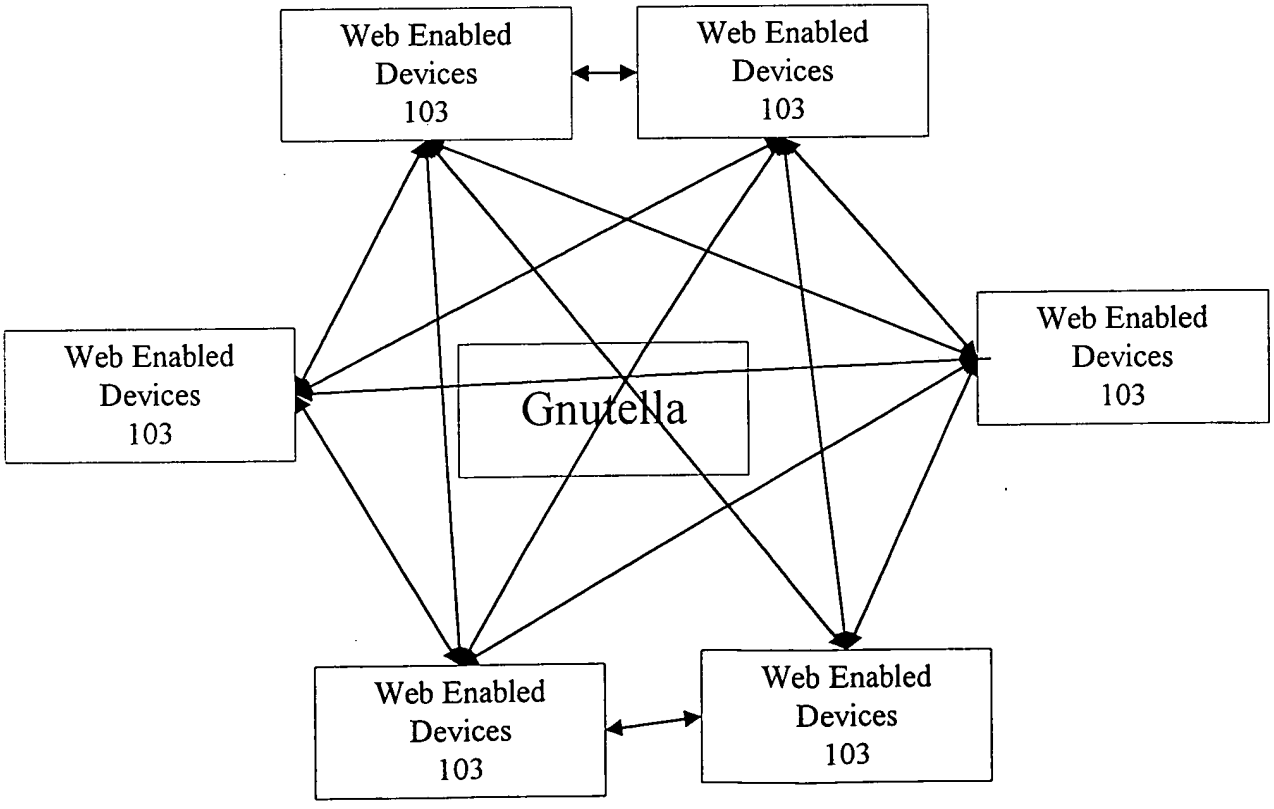

Web Enabled
Devices
103
Web Enabled
Devices
103
Web Enabled
Devices
103
Gnutella
Web Enabled
Devices
103
Web Enabled
Devices
103
Web Enabled
Devices
103

Figure 2a

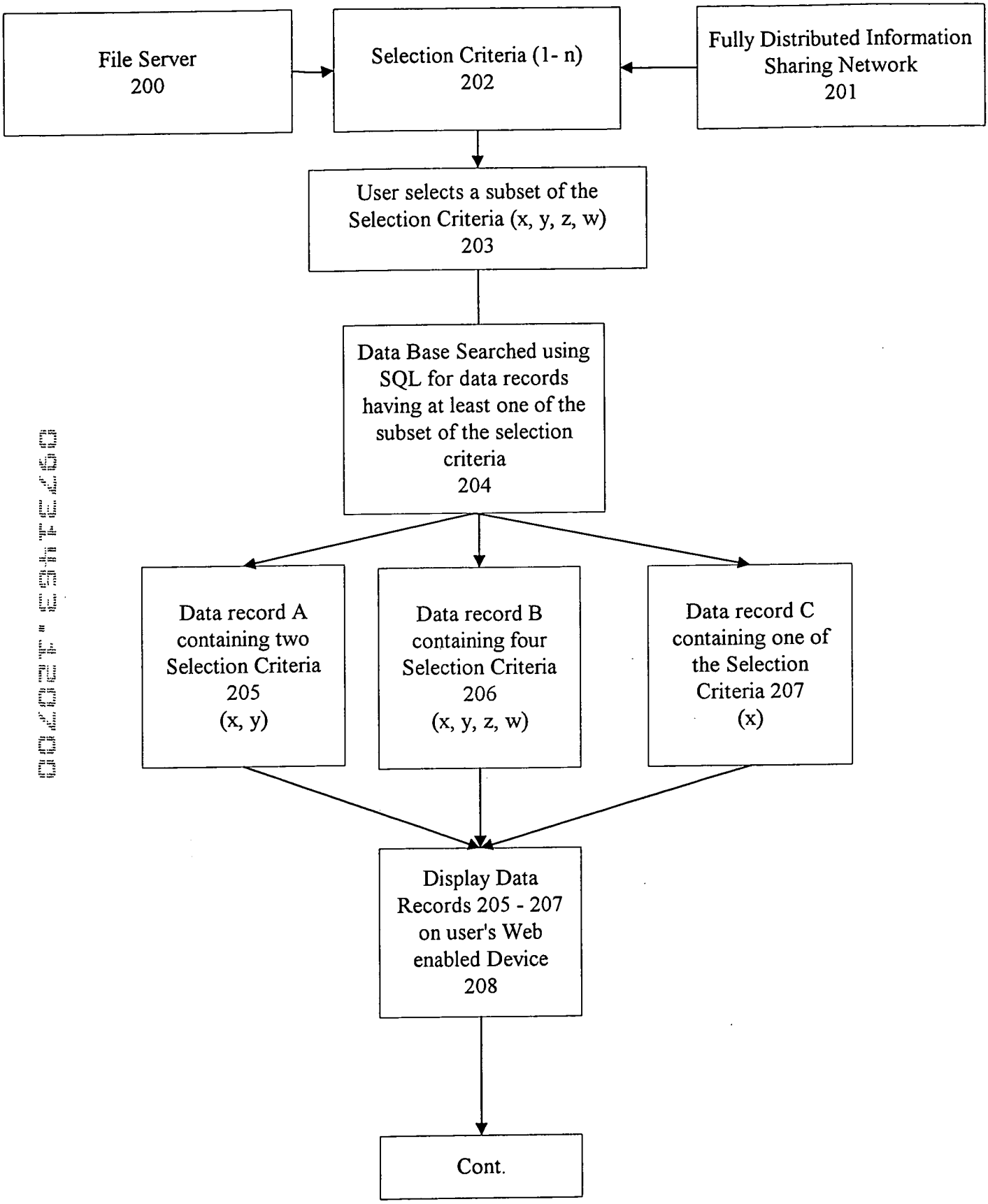

File Server
200
Selection Criteria (1- n)
202
Fully Distributed Information Sharing Network
201
User selects a subset of the Selection Criteria (x, y, z, w)
203
Data Base Searched using SQL for data records having at least one of the subset of the selection criteria
204
Data record A containing two Selection Criteria
205
(x, y)
Data record B containing four Selection Criteria
206
(x, y, z, w)
Data record C containing one of the Selection Criteria 207
(x)
Display Data Records 205 - 207 on user's Web enabled Device
208
Cont.

Figure 2b

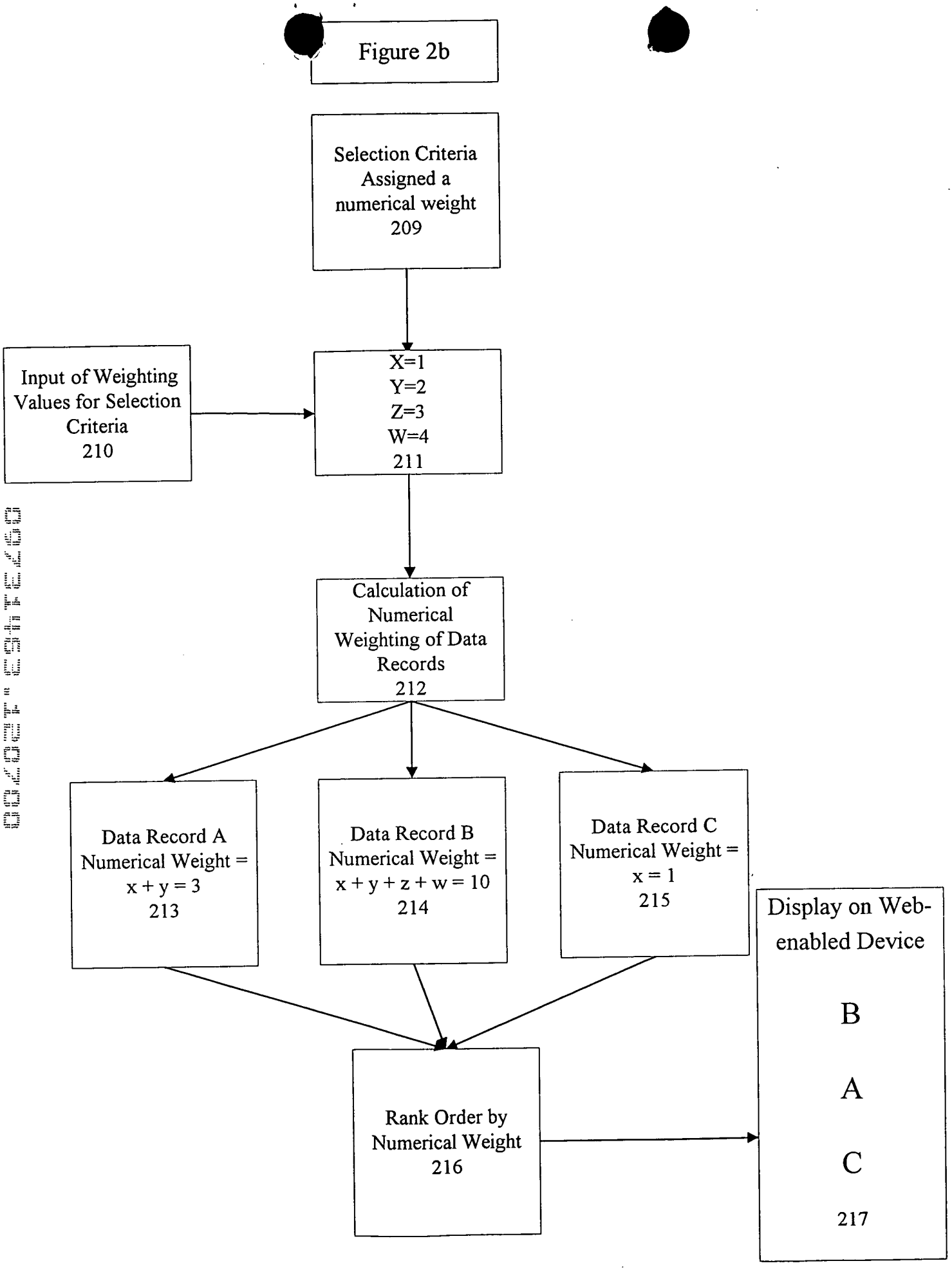

Selection Criteria Assigned a numerical weight 209
Input of Weighting Values for Selection Criteria 210
X=1
Y=2
Z=3
W=4
211
Calculation of Numerical Weighting of Data Records 212
Data Record A Numerical Weight = x + y = 3 213
Data Record B Numerical Weight = x + y + z + w = 10 214
Data Record C Numerical Weight = x = 1 215
Rank Order by Numerical Weight 216
Display on Web-enabled Device
B
A
C
217

Figure 3a

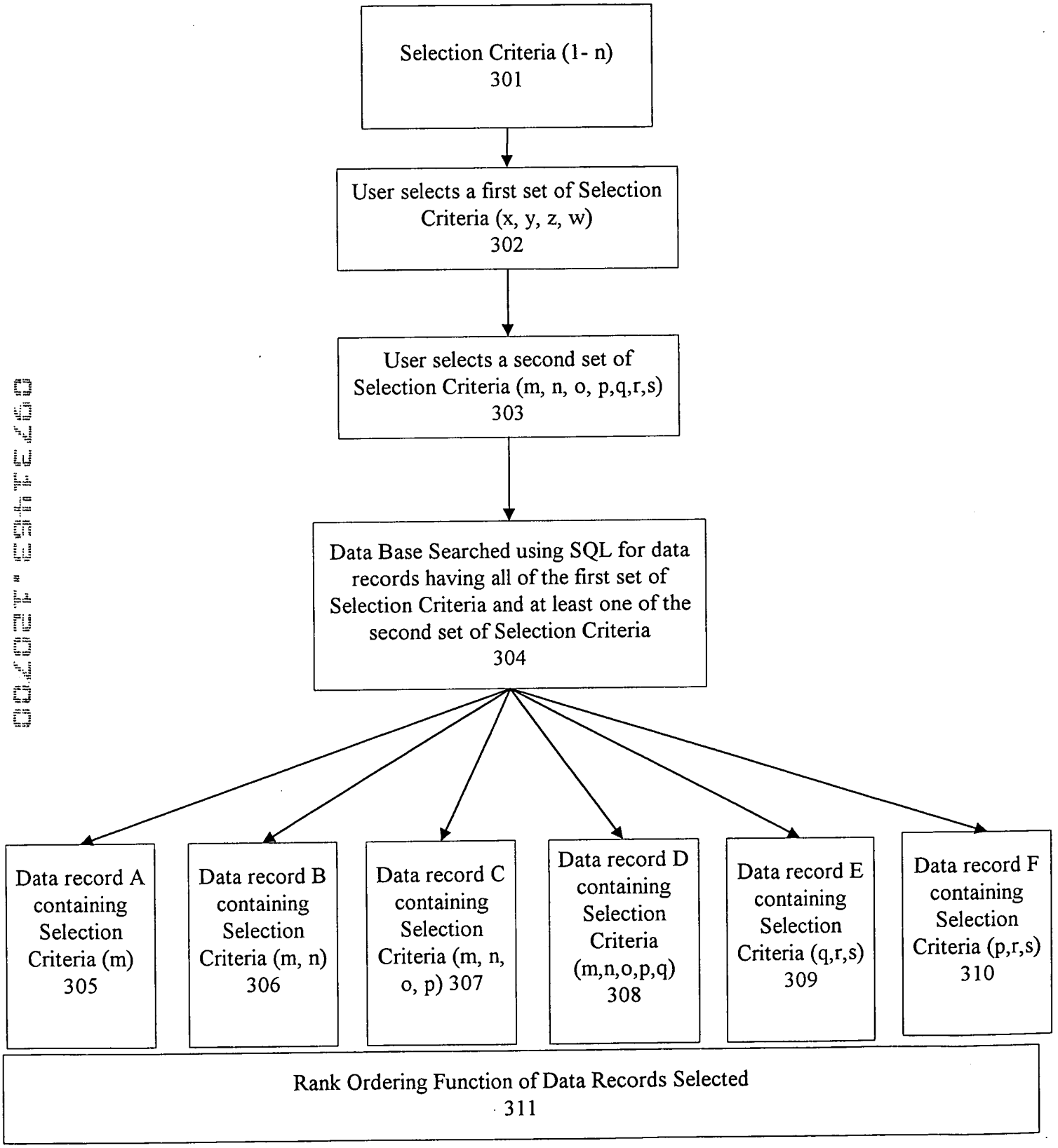

Selection Criteria (1- n)
301
User selects a first set of Selection Criteria (x, y, z, w)
302
User selects a second set of Selection Criteria (m, n, o, p,q,r,s)
303
Data Base Searched using SQL for data records having all of the first set of Selection Criteria and at least one of the second set of Selection Criteria
304
Data record A containing Selection Criteria (m)
305
Data record B containing Selection Criteria (m, n)
306
Data record C containing Selection Criteria (m, n, o, p) 307
Data record D containing Selection Criteria (m,n,o,p,q)
308
Data record E containing Selection Criteria (q,r,s)
309
Data record F containing Selection Criteria (p,r,s)
310
Rank Ordering Function of Data Records Selected
311

Figure 3b

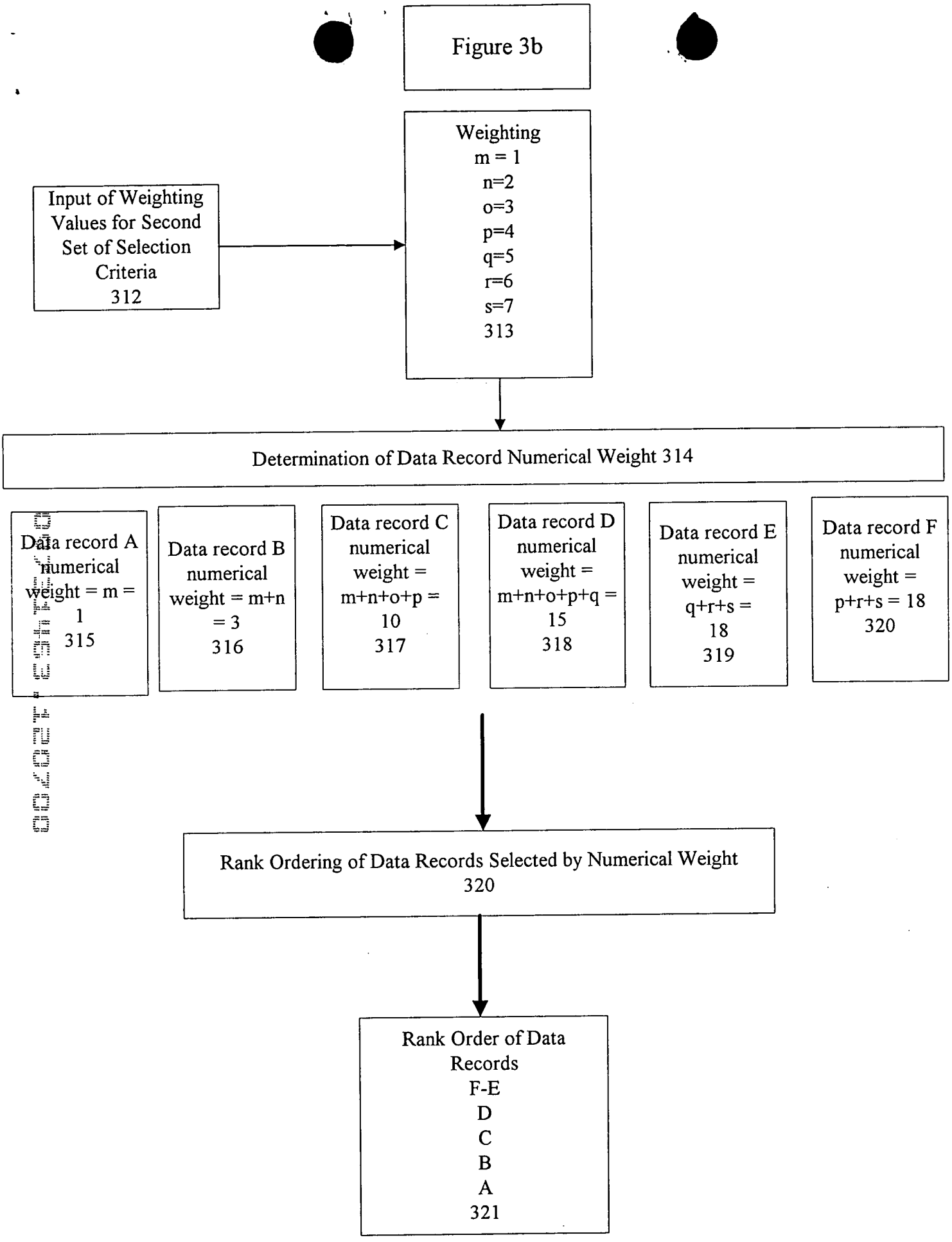

Input of Weighting Values for Second Set of Selection Criteria 312
Weighting m = 1 n=2 o=3 p=4 q=5 r=6 s=7 313
Determination of Data Record Numerical Weight 314
Data record A numerical weight = m = 1 315
Data record B numerical weight = m+n = 3 316
Data record C numerical weight = m+n+o+p = 10 317
Data record D numerical weight = m+n+o+p+q = 15 318
Data record E numerical weight = q+r+s = 18 319
Data record F numerical weight = p+r+s = 18 320
Rank Ordering of Data Records Selected by Numerical Weight 320
Rank Order of Data Records F-E D C B A 321

Figure 4a

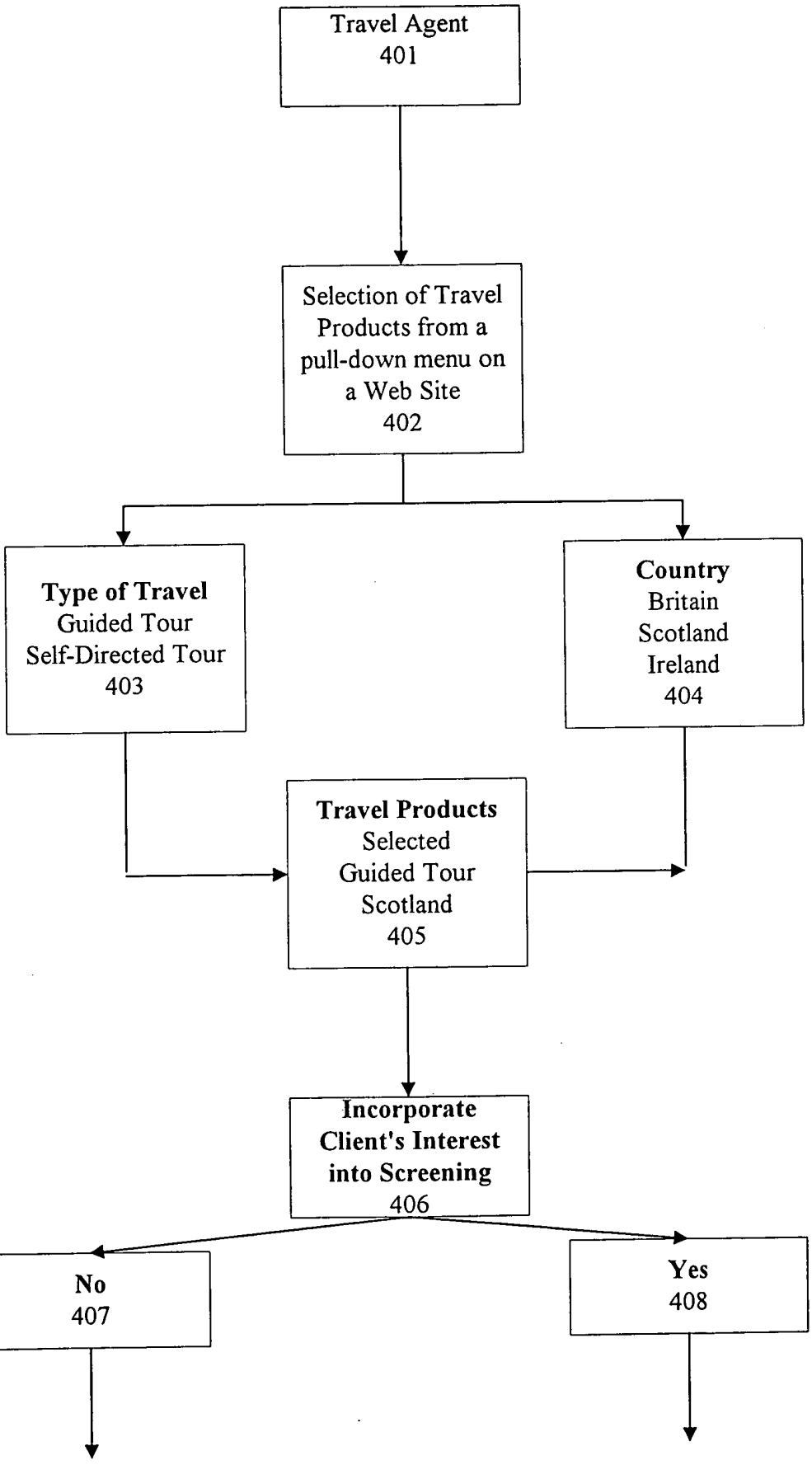

Travel Agent
401
Selection of Travel Products from a pull-down menu on a Web Site
402
Type of Travel
Guided Tour
Self-Directed Tour
403
Country
Britain
Scotland
Ireland
404
Travel Products
Selected
Guided Tour
Scotland
405
Incorporate Client's Interest into Screening
406
No
407
Yes
408

Figure 4b

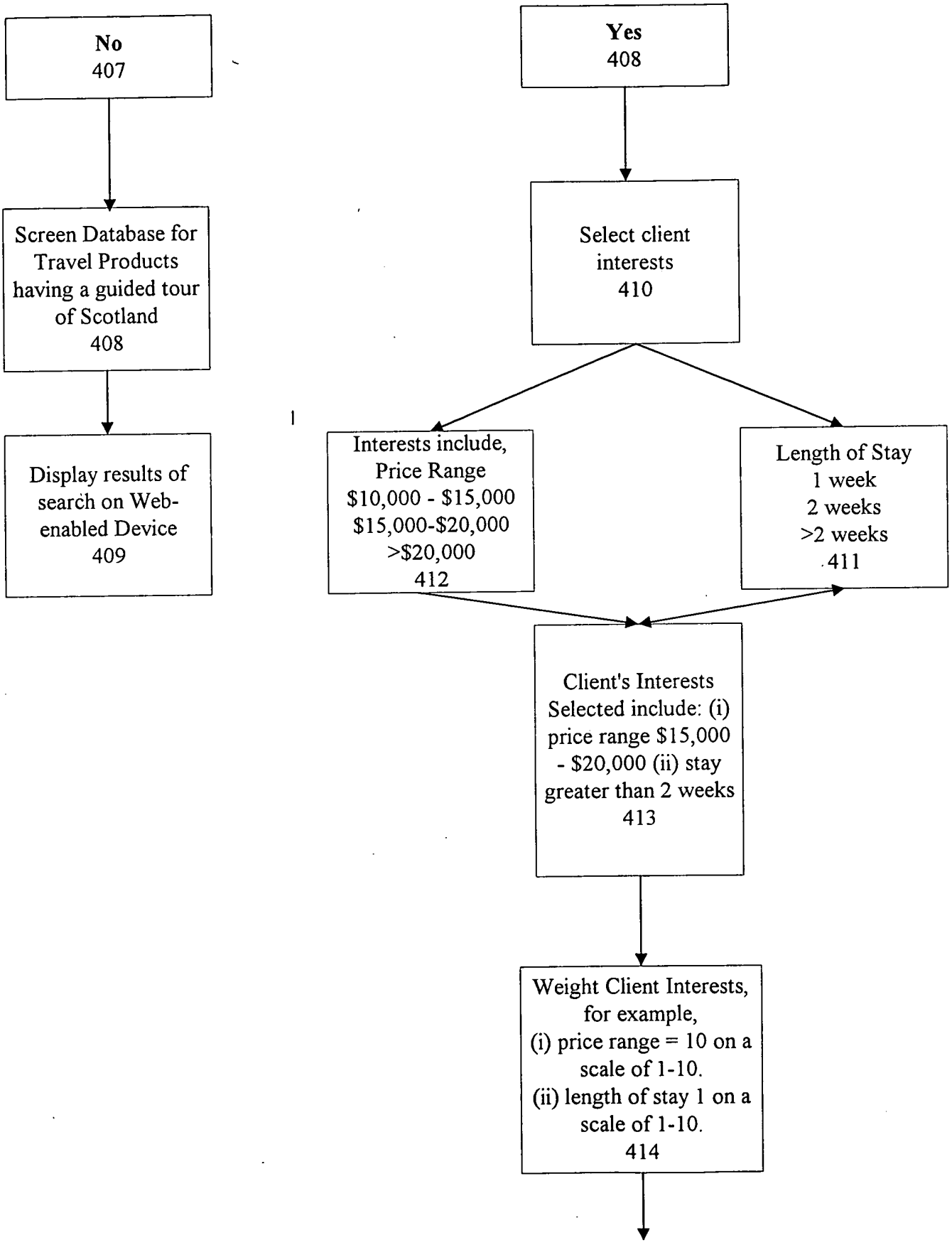

No
407
Screen Database for Travel Products having a guided tour of Scotland
408
Display results of search on Web-enabled Device
409
Yes
408
Select client interests
410
Interests include,
Price Range
$10,000 - $15,000
$15,000-$20,000
>$20,000
412
Length of Stay
1 week
2 weeks
>2 weeks
411
Client's Interests Selected include: (i) price range $15,000 - $20,000 (ii) stay greater than 2 weeks
413
Weight Client Interests, for example,
(i) price range = 10 on a scale of 1-10.
(ii) length of stay 1 on a scale of 1-10.
414

Figure 4c

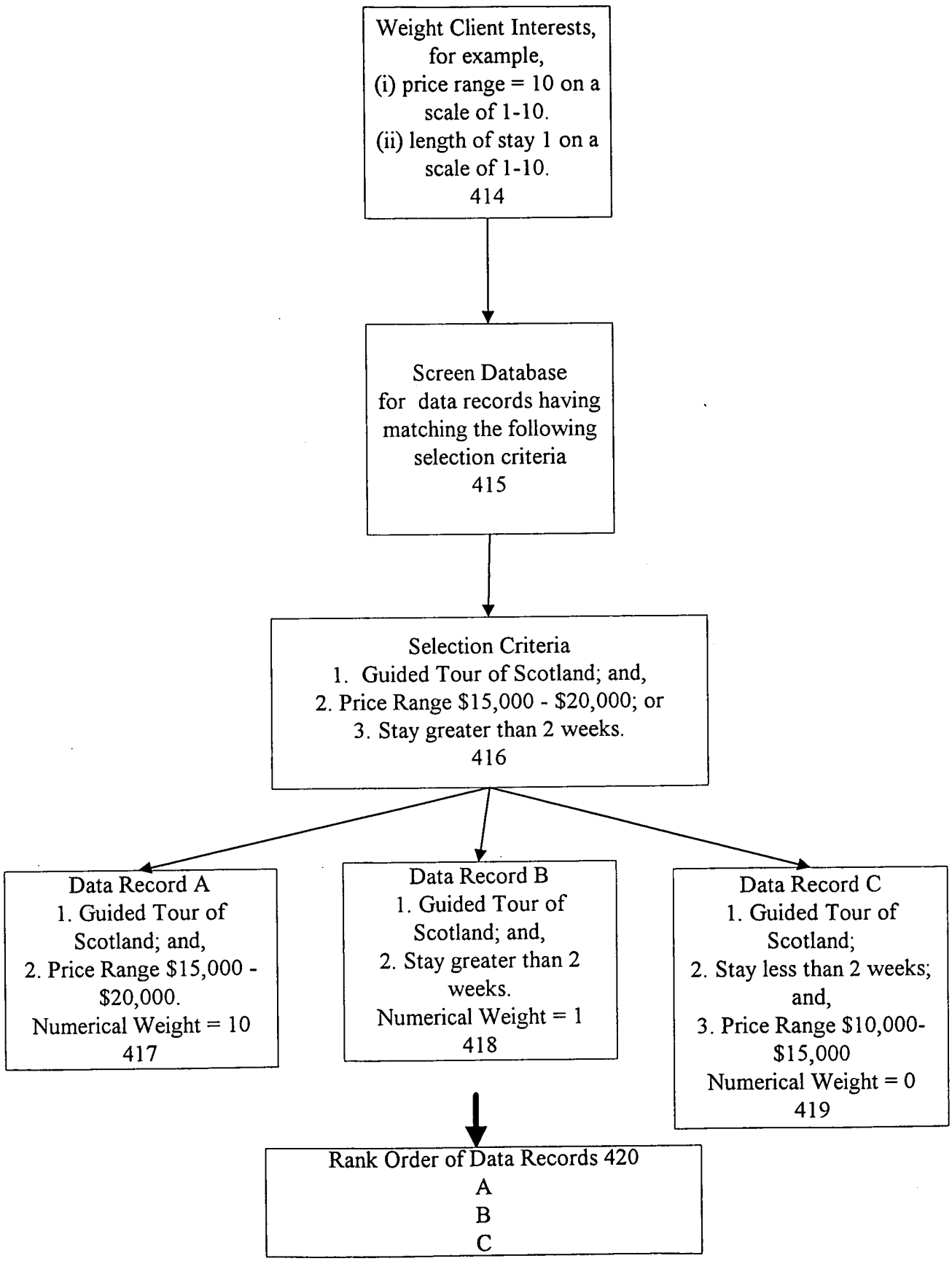

Weight Client Interests, for example, (i) price range = 10 on a scale of 1-10. (ii) length of stay 1 on a scale of 1-10. 414
Screen Database for data records having matching the following selection criteria 415
Selection Criteria 1. Guided Tour of Scotland; and, 2. Price Range $15,000 - $20,000; or 3. Stay greater than 2 weeks. 416
Data Record A 1. Guided Tour of Scotland; and, 2. Price Range $15,000 - $20,000. Numerical Weight = 10 417
Data Record B 1. Guided Tour of Scotland; and, 2. Stay greater than 2 weeks. Numerical Weight = 1 418
Data Record C 1. Guided Tour of Scotland; 2. Stay less than 2 weeks; and, 3. Price Range $10,000-$15,000 Numerical Weight = 0 419
Rank Order of Data Records 420 A B C

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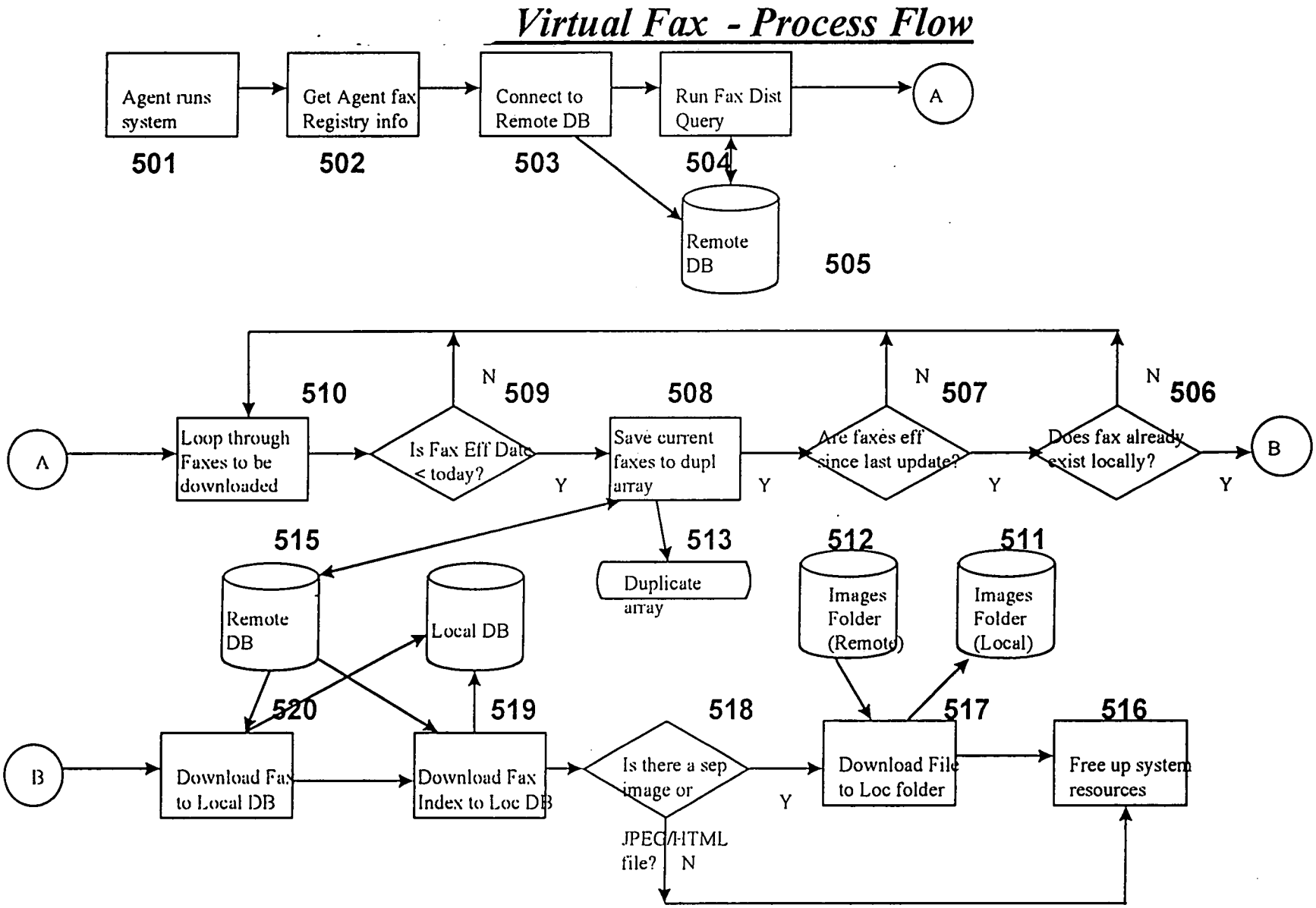
Figure 5



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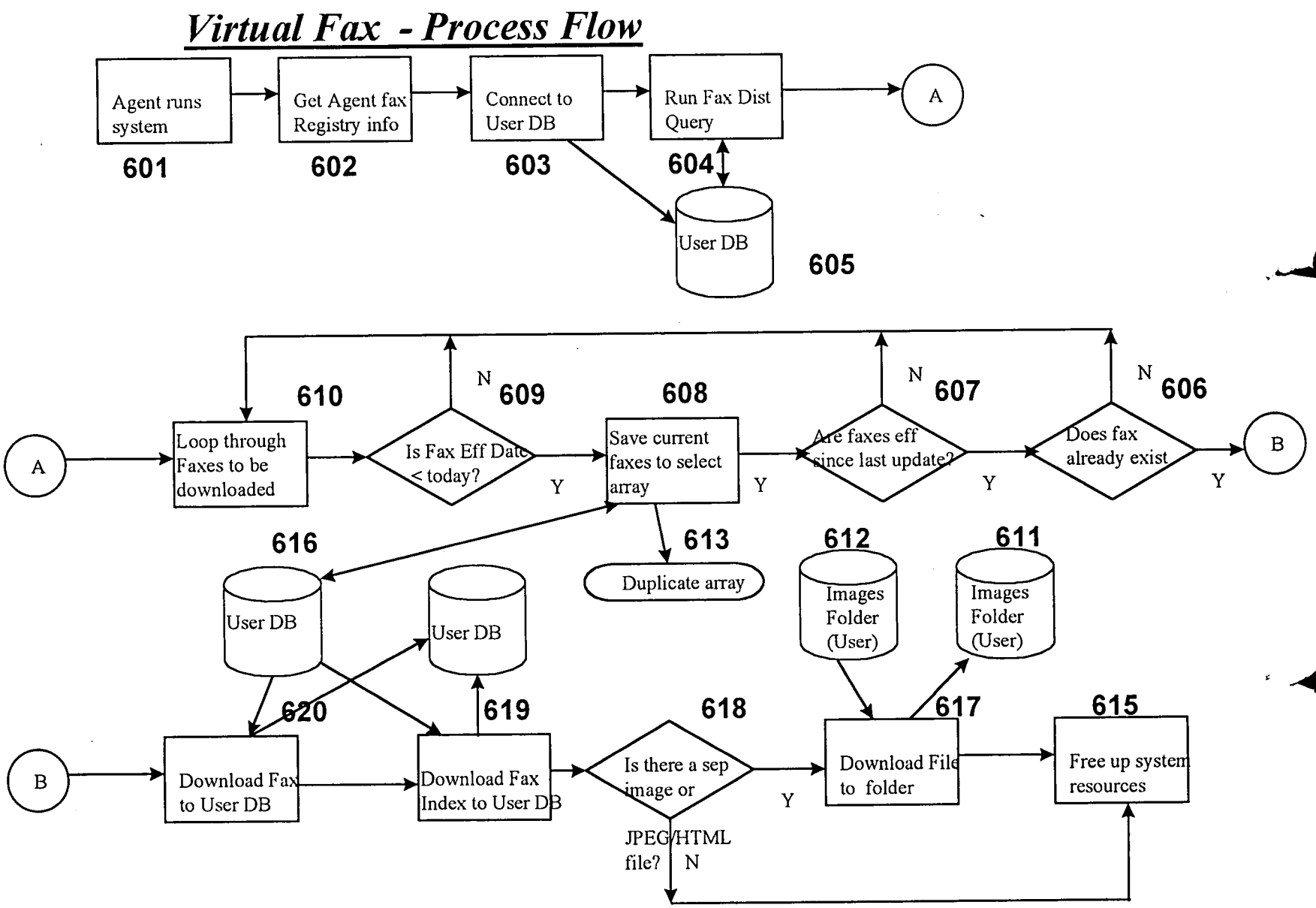
Figure 6